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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/602,249	06/23/2003	ZiQiang Zhu		1927

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WEI TE CHUNG  
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EXAMINER

MCCAMEY, ANN M

ART UNIT PAPER NUMBER

2833

DATE MAILED: 12/29/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/602,249

Applicant(s)

ZHU ET AL.

Examiner

Ann M McCamey

Art Unit

2833

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM  
THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-19 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 23 June 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. §§ 119 and 120**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☒ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
- a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_.

## DETAILED ACTION

### *Claim Objections*

Claims 1, 18 and 19 are objected to because of the following informalities: the claim language referring to the tab pressing/presses the extension is misleading, since the "pressing portion" holds the extension, and does not actively "press" it. "Should" (claim 18, line 17) should be --shoulder--. "Essentially" in claim 19 is ambiguous and should be deleted. Appropriate correction is required.

### *Claim Rejections - 35 USC § 102*

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 18 is rejected under 35 U.S.C. 102(b) as being anticipated by Fan (US 6,371,71).

Fan discloses an electrical connector 1 comprising:  
an insulative housing 20 formed with a groove 233 and a projection 23;  
a mating portion (around 25) and a plurality of contact receiving passageways 231;  
a plurality of contacts 30; and  
a hollow metallic shield with a tab 505 and a gap (between 504).

***Claim Rejections - 35 USC § 103***

Claims 1-13 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lin (US 6,368,156) in view of Wu (US 6,056,602).

Lin discloses the invention substantially as claimed including:

an insulative housing 1 defining a receiving space 12;

a plurality of contacts 3, 4; and

at least one of the contacts 3, 4 defining:

a body portion 30, with a tail portion 40 defining an opening 301 ;

a resilient arm 31 with a contact portion 311;

an extension 312 pressed by a tab having a pressing portion at 4  
(Fig. 1) ; and

second, third and fourth contacts, 3 & 4, 5, 6.

Lin does not disclose the tab extending from the body portion, i.e. Lin discloses two separate contacts 3 and 4. Wu teaches a tab for pressing an extension of a contact that is integral with the body portion (Fig. 4). It would have been obvious to one having ordinary skill in the art to integrate the two contacts of Lin as Wu teaches to reduce the number of parts to ease assembly.

Claims 14, 15 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lin in view of Wu as applied to claims 1, 7 and 10 above, and further in view of Fan.

Lin in view of Wu disclose the invention substantially as claimed, but do not disclose a metallic shell with a tab and a projection on the housing. Fan teaches a metallic shell with a tab to mate with a projection of a housing. It would have been obvious to one having ordinary skill in the art at the time the invention was made to include a metallic shell to provide EMI shielding, and include features such as a tab to facilitate mating of the shell to the housing and improve retention of the shell to the housing.

Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lin in view of Wu and Fan as applied to claim 14 above, and further in view of Yu et al. (US 6,375,498).

Lin in view of Wu and Fan disclose the invention substantially as claimed, but do not disclose the housing being formed with a pair of projections not that the metallic shell defines a pair of gaps. Yu et al. teach these features for mating a metallic shield to a housing. It would have been obvious to one having ordinary skill in the art at the time the invention was made to include a pair of projections to mate with gaps, to ensure better fitting and retention of the shell to the housing.

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ann M McCamey whose telephone number is (703) 305-3422. The examiner can normally be reached on M-F 9-5:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paula A. Bradley can be reached on (703) 308-2319. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

AMM

December 17, 2003



RENEE LUEBKE  
PRIMARY EXAMINER